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PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,393	09/30/2003	Shigeru Sakuma	117368	4141	
25944 75	90 04/13/2006		EXAMINER		
OLIFF & BERRIDGE, PLC			RAO, G NAGESH		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			1722		
			DATE MAILED: 04/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application No.	Applicant(s)		
Office Action Summary		10/673,393	SAKUMA ET AL	·•		
		Examiner	Art Unit			
			G. Nagesh Rao	1722	<u> </u>	
Period fo	The MAILING DATE of this commun r Reply	ication appe	ears on the cover shee	t with the correspondence a	address	
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months and ad patent term adjustment. See 37 CFR 1.704(b).	IAILING DA of 37 CFR 1.136 nunication. atutory period will will, by statute, of	TE OF THIS COMMUS(a). In no event, however, mall apply and will expire SIX (6) cause the application to become	JNICATION.  By a reply be timely filed  MONTHS from the mailing date of this the ABANDONED (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) file	ed on <i>09 Ma</i>	erch 2006.			
·	•	-	action is non-final.			
′=	Since this application is in condition	,—		natters, prosecution as to the	he merits is	
<i>,</i> —	closed in accordance with the practi		•	<u>.</u>		
Dispositi	on of Claims					
4)⊠	Claim(s) 1-11 is/are pending in the a	application.				
• —	4a) Of the above claim(s) 7-11 is/are	• •	from consideration.			
	Claim(s) is/are allowed.					
·	Claim(s) <u>1-6</u> is/are rejected.				•	
· _	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restrict	ction and/or	election requirement.			
Applicati	on Papers					
9)[]	The specification is objected to by the	e Examiner.				
•	The drawing(s) filed on is/are:			to by the Examiner.		
,	Applicant may not request that any obje	•	•			
	Replacement drawing sheet(s) including				CFR 1.121(d).	
11)	The oath or declaration is objected to	by the Exa	aminer. Note the attac	hed Office Action or form F	PTO-152.	
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		Paper 5) 🔲 Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (P	TO-152)	

Office Action Summary

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## Election/Restrictions

1) Claims 7-11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 3/9/06.

## Claim Rejections - 35 USC § 102

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2) Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Hiraiwa (US Patent No. 6,994,747).

The applied reference has a common inventor (Shigeru Sakuma) with the instant application. Based upon the earlier effective U.S. filing date of

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the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Hiraiwa 747 pertains to a method for producing an optical member made of fluoride crystal (See Abstract and Col 1 Lines 1-11). Disclosed in Hiraiwa 747's method of growth include a growing step growing an ingot of fluoride crystal, a cutting out step of cutting out from the ingot, an orientation-determination step of a crystal orientation being able to measure two or more crystal plane orientations of the ingot, a birefringence measuring step, and an evaluation step of evaluating the fluoride crystal on the basis of a result of measurement of the birefringence (See Abstract, Figure 6, Col 2 Lines 11-22, Col 3-4 Lines 1-68, and Col 14 Lines 5-22).

Hiraiwa 747 further teaches a plane orientation measuring step utilizing a Laue Method with X-Rays, upon understanding in the specification would read on a technique measuring a birefringence at the side surface at a plurality of angles (See Col 5 Lines 4-21, Col 7 Lines 56-68 and Col 8 Lines 1-68). As well the maximum value of the birefringence in the specific crystal axis direction at the side surface could not be more than

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10 nm/cm in particular embodiments it can be 5 to 3 nm/cm at a measurement wavelength of 633 nm (See Col 19 Lines 45-68 and Col 20 Lines 1-8). Finally Hirawai 747 teaches a variety of plane directions for the optical member formed including parallel planes at the {111} and side surface direction being <110> or two parallel planes that are {100} and side surface directions at <100> or <110> (See Figures 1-4D, Col 4 Lines 1-68 for a variety of plane and direction crystal orientations).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**GNR** 

ROBERT KUNEMUND PRIMARY PATÉNT EXAMINER A.U. \$1722